

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/006424

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23L1/212 A23L1/064 A23B7/005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23L A23B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE FSTA 'Online! INTERNATIONAL FOOD INFORMATION SERVICE (IFIS), FRANKFURT/MAIN, DE; KARIM M A ET AL: "Effect of heat processing on the quality of canned mango pulp." XP002262296 Database accession no. 72-2-04-j0564 abstract & PAKISTAN JOURNAL OF SCIENTIFIC RESEARCH 1970 DEPT. OF FOOD TECH., AGRIC. UNIV., LYALLPUR, W. PAKISTAN, vol. 22, no. 1/2, 1970, pages 44-50, ----- -/--</p>	1-8, 25

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

T later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

17/11/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE FSTA 'Online! INTERNATIONAL FOOD INFORMATION SERVICE (IFIS), FRANKFURT/MAIN, DE; CARVALLO P M S ET AL: "Formulation of an avocado paste product." XP002262297 Database accession no. 84-2-09-j1551	1-8,13, 25
A	abstract & ALIMENTOS FAC. DE INGENIERIA, GENERAL CRUZ NO. 34, VALPARAISO, CHILE, vol. 8, no. 4, 1983, pages 9-14,	21,22
X	US 5 298 275 A (BALASINGHAM AMARANATHAN ET AL) 29 March 1994 (1994-03-29)	1-8,13, 25
A	column 3, line 39 - column 4, line 58 column 6, line 54 - column 7, line 60 column 11, line 45 - column 12, line 21 examples 1-3 claims 1,10,13,17	20,22-24
X	US 5 871 794 A (BRITO JORGE ISSAC) 16 February 1999 (1999-02-16)	1-8,13, 25
A	cited in the application the whole document	9-11,16, 18-23
X	DE 11 01 118 B (HANS ADALBERT SCHWEIGART DR) 2 March 1961 (1961-03-02)	1,2, 4-13,16, 18,19,25
A	the whole document	21-24
X	DATABASE FSTA 'Online! INTERNATIONAL FOOD INFORMATION SERVICE (IFIS), FRANKFURT/MAIN, DE; MARTIN Z DE ET AL: "Industrial production of guava pulp, red variety." XP002262298 Database accession no. 76-1-05-j0655	1,2,4-8, 13,25
	abstract & COLETANIA DO INSTITUTO DE TECNOLOGIA DE ALIMENTOS, vol. 6, no. 1, 1975, pages 11-36,	
X	DATABASE FSTA 'Online! INTERNATIONAL FOOD INFORMATION SERVICE (IFIS), FRANKFURT/MAIN, DE; RODRIGUEZ A J ET AL: "Evaluation of papaya nectar prepared from unpeeled papaya puree." XP002262299 Database accession no. 72-2-10-j1593	1,2,4-8, 13,25
A	abstract	20,22-24

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	& JOURNAL OF AGRICULTURE OF THE UNIVERSITY OF PUERTO RICO FOOD TECH. LAB., AGRIC. EXPT. STA., MAYAGÜEZ CAMPUS, UNIV. OF PUERTO RICO, USA, vol. 56, no. 1, 1972, pages 79-80, -----	
X	US 5 900 267 A (MONROS SALVADOR CORET) 4 May 1999 (1999-05-04)	1,2, 4-13, 16-19,25 21-24
A	the whole document	
X	US 2002/197385 A1 (TOVES FRANCES ANN) 26 December 2002 (2002-12-26) paragraph '0010! - paragraph '0016! paragraph '0029! paragraph '0033! - paragraph '0044! examples 1,2 claims 1,3,4,6-8,15-18 -----	1-13, 16-19, 21-25
X	FR 2 621 224 A (DESJONQUERES OLIVIER) 7 April 1989 (1989-04-07) the whole document	1-8,25
X	EP 0 850 572 A (BERTOCCHI ALESSANDRO) 1 July 1998 (1998-07-01)	1,4-8,25
A	column 1, line 3 - line 38 column 3, line 26 - column 5, line 20 claim 1	21-24
X	EP 0 429 966 A (MEIDI YA FOOD FACTORY) 5 June 1991 (1991-06-05) the whole document	1,2, 4-11,13, 16,18, 19,25
X	US 4 139 647 A (DOUGLAS GEORGE) 13 February 1979 (1979-02-13) column 2, line 8 - column 3, line 26 claims 1,2	1,2, 4-18, 21-25
A	US 2002/068125 A1 (TAN MAY CHU ET AL) 6 June 2002 (2002-06-06) the whole document	1-8,20, 22-25
X	FR 2 294 649 A (GERBER PROD) 16 July 1976 (1976-07-16)	9-11,13, 17-19,25
A	page 1, line 1 - line 7 examples 2,3 claim 1 ----- -/-	7,21-23

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 4 413 017 A (LOADER MARY A) 1 November 1983 (1983-11-01) column 3, line 49 - column 4, line 65 column 7, line 53 - column 9, line 39 example 1 claims 1,2,6-13	1,2,6-8, 21-25 9-13, 17-19
X	US 5 879 737 A (ASHOURIAN JAMSHID) 9 March 1999 (1999-03-09) column 2, line 45 - column 5, line 10 examples 1,2,5 tables 1,2	9-11,13, 16-19,25
A	claims 1,2,8-10	21-24
A	DATABASE FSTA 'Online! INTERNATIONAL FOOD INFORMATION SERVICE (IFIS), FRANKFURT/MAIN, DE; WILLS R B H ET AL: "Storage of two new cultivars of guava fruit for processing." XP002262300 Database accession no. 83-3-12-j1934 abstract & TROPICAL AGRICULTURE SCHOOL OF FOOD TECH., UNIV. OF NEW SOUTH WALES, PO BOX 1, KENSINGTON, NSW 2033, AUSTRALIA, vol. 60, no. 3, 1983, pages 175-178,	4,20, 22-24
A	DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 1987, SEYMOUR G B ET AL: "INHIBITION OF DEGREENING IN THE PEEL OF BANANAS RIPENED AT TROPICAL TEMPERATURES I. EFFECT OF HIGH TEMPERATURE ON CHANGES IN THE PULP AND PEEL DURING RIPENING" XP002262301 Database accession no. PREV198784003621 abstract & ANNALS OF APPLIED BIOLOGY, vol. 110, no. 1, 1987, pages 145-152, ISSN: 0003-4746	4,20,22
P,X	WO 2004/037017 A (UNILEVER PLC ; LEVER HINDUSTAN LTD (IN); UNILEVER NV (NL)) 6 May 2004 (2004-05-06) the whole document	1-25

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8, 13 (part), 20, 22(part), 23(part), 25(part)

Stabilized fruit pulp and method for making a stabilized fruit pulp composition

2. claims: 9-12, 13(part), 14-19, 21, 22(part), 23(part), 25(part)

Stable puree composition method for making a stabilised fruit puree composition

Common features between independent claims 1, 9, 20, 21 and 25 is a fruit pulp comprising chunks, said chunks having dimensions from about 1x1x1 mm to about 15x15x15 mm.

These dimensions are common to almost all fruit pulp compositions and are therefore unsuitable for defining an inventive concept, since these technical features in combination are not special, considering that they do not define any contribution over the prior art.

Independent claim 1 relates to a stabilized fruit pulp composition, claim 20 to a method for making a stabilized fruit pulp composition and claim 25 to a product produced by said method. The feature in common is a heating step of less than 90° min for less than 4 min. This short time pasteurization step does also not define any contribution over the prior art (see eg US2002/197385).

Independent claim 9 relates to a stable puree composition, claim 21 to a method for making a stabilised fruit puree composition and claim 25 to a product produced by the process of claim 21. The additional feature in common is the presence of a thickening base. A pulp comprising a thickening base is already known in the art and thus does not define any contribution over the prior art (see US2002/197385).

Please note that all inventions mentioned under groups 1 and 2, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

As set out above, there is no technical relationship between special technical features in the sense of R. 13 PCT and claims 1, 9, 20, 21 and 25 define different inventions.

The groups of inventions are therefore:

Group 1.1 (Claims 1-8, 13(part))

Group 1.2 (Claim 20, 22(part), 23(part), 25(part))

Group 2.1 (Claims 9-13(part), 14-19)

Group 2.2 (Claims 21, 22(part), 23(part), 25(part))

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Information on patent family members

International Application No

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